

## Ch 1 Practice Test

---

Evaluate the following:

1.  $32^{\circ}19'+12^{\circ}48''$

2.  $15^{\circ}23' - 8^{\circ}37'$

3. Find the measure of two complimentary angles with measures  $(5z - 20)$  and  $(4z + 30)$

4. Find the measure of two supplementary angles with measures  $(2z - 30)$  and  $(4z + 90)$

5. Convert  $56^{\circ}32'22''$  to decimal degrees.

6. Convert  $47.1956^{\circ}$  to DMS.

**Find one positive co-terminal and one negative co-terminal**

7.  $135^{\circ}$

8.  $-312^{\circ}$

**Find an angle co-terminal to the following with  $0^{\circ} \leq \theta \leq 360^{\circ}$**

9.  $926^{\circ}$

10.  $-712^{\circ}$

## Ch 1 Practice Test

---

Find the values of the 6 trig functions in standard position given the following.

11.  $(5, -1)$

12.  $\sin\theta = -\frac{4}{3}$ , and  $\cos\theta < 0$

13.  $\tan\theta = \frac{2}{5}$ , and  $\sec\theta < 0$

## Ch 1 Practice Test

---

Determine what quadrant  $\theta$  terminates given the following

14.  $\sec\theta > 0$  and  $\cot\theta < 0$

15.  $\tan\theta > 0$  and  $\sin\theta > 0$

What are the values of the following trig functions quadrantal angles?

16.  $\sin\theta$

17.  $\sec\theta$

18.  $\cot\theta$

19. A propeller rotates 195 times per minute. Through how many degrees will a point on the edge of the propeller rotate in 2.6 seconds.

20. A Windmill rotates 245 times per hour. Through how many degrees will a point on the edge of the mill rotate in 12 minutes.